



# Safety Data Sheet

Created date 01-Oct.-2020

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: WEPRO® for DB PLUS**

**Identified use: Laboratory chemicals**

**Company/Undertaking Identification**

CellFree Sciences Co., Ltd

Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku

Yokohama, Kanagawa 230-0045, Japan

Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## 2. HAZARDOUS IDENTIFICATION

Physical State: Liquid

Principal Routes of exposure/Potential Health Effects

Eyes No information available

Skin No information available

Inhalation No information available

Ingestion May cause gastrointestinal irritation, nausea, vomiting and diarrhea

Specific effects

Carcinogenic Effects No information available

Mutagenic Effects No information available

Reproductive Toxicity No information available

Sensitization No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration,w/v%	CAS No.
Adenosine-5'-triphosphate Disodium Salt	Less than 1	51963-61-2
2-[-4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic Acid	Less than 1	7365-45-9
Creatine Kinase	Less than 1	None
Disodium Creatinephosphate Tetrahydrate	Less than 1	922-32-7
Potassium Acetate	Less than 2	127-08-2
Wheat germ Extract (Natural Product)	55 - 70	Not applicable

### 4. FIRST AID AND MEASURES

#### GENERAL ADVICE:

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

#### INHALATION:

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

#### EYE CONTACT:

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

#### INGESTION:

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

### 5. FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, foam, water

#### FIRE&EXPLOSION HAZARDS:

Toxic, irritating dust or smoke may be emitted.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

## **6. ACCIDENTAL RELEASE MEASURES**

### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

### METHODS FOR CLEAN UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## **7. HANDLING AND STORAGE**

### HANDLING:

No special measures necessary. Good laboratory technique should be used when handling.

### STORAGE:

No special measures necessary. Store at -80°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Above 100 degree C

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

### STABILITY:

Stable, under normal handling and storage conditions.

### DECOMPOSITION:

No data available.

### CONDITIONS TO AVOID:

Contact with strong oxidants or fire.

### HAZARDOUS POLYMERIZATION:

Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA:	Not available
IRRITATION DATA:	Not available
MUTATION DATA:	Not available
REPRODUCTIVE EFFECTS DATA:	Not available
TUMORIGENIC DATA:	Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY:	Not available
BIOACCUMULATION POTENTIAL:	Not available
AQUATIC TOXICITY:	Not available

## **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

## **14. TRANSPORT INFORMATION**

IATA:	Not Restricted.
DOT(Department of Transportation):	Not a Hazardous Material for DOT shipping.

## **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.

## **16. OTHER INFORMATION**

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. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volume, or conditions of use the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY , EXPRESSED OR IMPLIED, OF ITS SUITABILITY FOR A PARTICULAR PURPOSE.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: Transcription Premix LM**

**Identified use: Laboratory chemicals**

**Company/Undertaking Identification**

CellFree Sciences Co., Ltd  
Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
Yokohama, Kanagawa 230-0045, Japan

Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## 2. HAZARDOUS IDENTIFICATION

Physical State:	Aqueous solution
Principal Routes of exposure/Potential Health Effects	
Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	Maybe harmful if swallowed
Specific effects	
Carcinogenic Effects	No information available
Mutagenic Effects	No information available
Reproductive Toxicity	No information available
Sensitization	No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration,w/v%	CAS No.
2-[-4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic Acid	Less than 3	7365-45-9
ATP	Less than 1	51963-61-2
CTP	Less than 1	81012-87-5
Threo-1,4-Dimercapto-2,3-butanediol	Less than 1	3483-12-3
Glycerol	Less than 7	56-81-5
GTP	Less than 1	56001-37-7
Magnesium Acetate Tetrahydrate	Less than 1	16674-78-5
Polyethylene glycol tert-octylphenyl ether	Less than 1	9002-93-1
Spermidine Trihydrochloride	Less than 1	334-50-9
UTP	Less than 1	19817-92-6

pH to be adjusted with potassium hydroxide(About pH8)

### 4. FIRST AID AND MEASURES

#### GENERAL ADVICE:

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

#### INHALATION:

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

#### EYE CONTACT:

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

#### INGESTION:

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

## **5. FIRE FIGHTING MEASURES**

### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, foam, water

### FIRE&EXPLOSION HAZARDS:

Toxic, irritating dust or smoke may be emitted.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

## **6. ACCIDENTAL RELEASE MEASURES**

### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

### METHODS FOR CLEAN UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## **7. HANDLING AND STORAGE**

### HANDLING:

No special measures necessary. Good laboratory technique should be used when handling.

### STORAGE:

No special measures necessary. Store at -80°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection:	Chemical resistant gloves
Eye protection:	Safety glasses (goggles)
Skin protection:	Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution  
BOILING POINT: Above 100 degree C  
MELTING POINT: Not available  
FREEZING POINT: Below 0 degree C  
VAPOR DENSITY: Not available  
VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable, under normal handling and storage conditions.  
DECOMPOSITION: No date available.  
CONDITIONS TO AVOID: Contact with strong oxidants or fire.  
HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA: Not available  
IRRITATION DATA: Not available  
MUTATION DATA: Not available  
REPRODUCTIVE EFFECTS DATA: Not available  
TUMORIGENIC DATA: Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY: Not available  
BIOACCUMULATION POTENTIAL: Not available  
AQUATIC TOXICITY: Not available

## **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

## **14. TRANSPORT INFORMATION**

IATA: Not Restricted.  
DOT(Department of Transportation): Not a Hazardous Material for DOT shipping.

## **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.



## **16. OTHER INFORMATION**

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. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volume, or conditions of use the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, OF ITS SUITABILITY FOR A PARTICULAR PURPOSE.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: SUB-AMIX® SGC DTT-free**

**Identified use: Laboratory chemicals**

### Company/Undertaking Identification

CellFree Sciences Co., Ltd  
Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
Yokohama, Kanagawa 230-0045, Japan

### Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## 2. HAZARDOUS IDENTIFICATION

Physical State:	Aqueous solution
Principal Routes of exposure/Potential Health Effects	
Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	Maybe harmful if swallowed

### Specific effects

Carcinogenic Effects	No information available
Mutagenic Effects	No information available
Reproductive Toxicity	No information available
Sensitization	No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration, w/v%	CAS No.
2-[4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic Acid	Less than 1	7365-45-9
Adenosine 3',5'-Cyclic Monophosphate Hydrate	Less than 1	60-92-4
Adenosine-5'-triphosphate Disodium Salt	Less than 1	51963-61-2
Disodium Creatinephosphate Tetrahydrate	Less than 1	922-32-7
Glycine	Less than 1	56-40-6
L-Alanine	Less than 1	56-41-7
L-Arginine(HCl)	Less than 1	1119-34-2
L-Asparagine(H <sub>2</sub> O)	Less than 1	5794-13-8
L-Aspartic Acid	Less than 1	56-84-8
L-Cysteine(HCl,H <sub>2</sub> O)	Less than 1	7048-04-6
L-Glutamic Acid	Less than 1	56-86-0
L-Glutamine	Less than 1	56-85-9
L-Histidine(HCl,H <sub>2</sub> O)	Less than 1	5934-29-2
L-Isoleucine	Less than 1	73-32-5
L-Leucine	Less than 1	61-90-5
L-Lysine(HCl)	Less than 1	657-27-2
L-Methionine	Less than 1	63-68-3
L-Phenylalanine	Less than 1	63-91-2
L-Proline	Less than 1	147-85-3
L-Serine	Less than 1	56-45-1
L-Threonine	Less than 1	72-19-5
L-Tryptophan	Less than 1	73-22-3
L-Tyrosine	Less than 1	60-18-4
L-Valine	Less than 1	72-18-4
Magnesium Acetate Tetrahydrate	Less than 1	16674-78-5
Potassium Acetate	Less than 2	127-08-2
Spermidine Trihydrochloride	Less than 1	334-50-9

pH to be adjusted with potassium hydroxide(About pH7.8)

#### **4. FIRST AID AND MEASURES**

##### GENERAL ADVICE:

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

##### INHALATION:

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

##### EYE CONTACT:

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

##### INGESTION:

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

#### **5. FIRE FIGHTING MEASURES**

##### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, foam, water

##### FIRE&EXPLOSION HAZARDS:

Toxic, irritating dust or smoke may be emitted.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

##### METHODS FOR CLEAN UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

#### **7. HANDLING AND STORAGE**

##### HANDLING:

No special measures necessary. Good laboratory technique should be used when handling.

##### STORAGE:

No special measures necessary. Store at -80°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Above 100 degree C

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable, under normal handling and storage conditions.

DECOMPOSITION: No date available.

CONDITIONS TO AVOID: Contact with strong oxidants or fire.

HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA: Not available

IRRITATION DATA: Not available

MUTATION DATA: Not available

REPRODUCTIVE EFFECTS DATA: Not available

TUMORIGENIC DATA: Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY: Not available

BIOACCUMULATION POTENTIAL: Not available

AQUATIC TOXICITY: Not available

### **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

### **14. TRANSPORT INFORMATION**

IATA:	Not Restricted.
DOT(Department of Transportation):	Not a Hazardous Material for DOT shipping.

### **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.

### **16. OTHER INFORMATION**

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. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volume, or conditions of use the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY , EXPRESSED OR IMPLIED, OF ITS SUITABILITY FOR A PARTICULAR PURPOSE.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: pEU-E01-MCS**

**Identified use: Laboratory chemicals**

### Company/Undertaking Identification

CellFree Sciences Co., Ltd  
 Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
 Yokohama, Kanagawa 230-0045, Japan

### Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## 2. HAZARDOUS IDENTIFICATION

Physical State: Aqueous solution  
 Principal Routes of exposure/Potential Health Effects  
 Eyes No information available  
 Skin No information available  
 Inhalation No information available  
 Ingestion Maybe harmful if swallowed

### Specific effects

Carcinogenic Effects No information available  
 Mutagenic Effects No information available  
 Reproductive Toxicity No information available  
 Sensitization No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration,w/v%	CAS No.
Tris(hydroxymethyl)aminomethane	Less than 1	77-86-1

#### **4. FIRST AID AND MEASURES**

##### **GENERAL ADVICE:**

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

##### **INHALATION:**

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

##### **EYE CONTACT:**

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

##### **INGESTION:**

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

#### **5. FIRE FIGHTING MEASURES**

##### **EXTINGUISHING MEDIA:**

Carbon dioxide, dry chemical powder, foam, water

##### **FIRE&EXPLOSION HAZARDS:**

Toxic, irritating dust or smoke may be emitted.

##### **SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:**

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **PROCEDURE(S) OF PERSONAL PRECAUTION(S):**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

##### **METHODS FOR CLEAN UP:**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

#### **7. HANDLING AND STORAGE**

##### **HANDLING:**

No special measures necessary. Good laboratory technique should be used when handling.

##### **STORAGE:**

No special measures necessary. Store at -20°C ~ -80°C.



## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Above 100 degree C

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable, under normal handling and storage conditions.

DECOMPOSITION: No data available.

CONDITIONS TO AVOID: Contact with strong oxidants or fire.

HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA: Not available

IRRITATION DATA: Not available

MUTATION DATA: Not available

REPRODUCTIVE EFFECTS DATA: Not available

TUMORIGENIC DATA: Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY: Not available

BIOACCUMULATION POTENTIAL: Not available

AQUATIC TOXICITY: Not available

### **13. DISPOSAL CONSIDERATION**

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## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: pEU-E01-His-tPA**

**Identified use: Laboratory chemicals**

**Company/Undertaking Identification**

CellFree Sciences Co., Ltd  
 Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
 Yokohama, Kanagawa 230-0045, Japan

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Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

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## 2. HAZARDOUS IDENTIFICATION

Physical State: Aqueous solution  
 Principal Routes of exposure/Potential Health Effects  
 Eyes No information available  
 Skin No information available  
 Inhalation No information available  
 Ingestion Maybe harmful if swallowed

Specific effects

Carcinogenic Effects No information available  
 Mutagenic Effects No information available  
 Reproductive Toxicity No information available  
 Sensitization No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration,w/v%	CAS No.
Tris(hydroxymethyl)aminomethane	Less than 1	77-86-1

#### **4. FIRST AID AND MEASURES**

##### GENERAL ADVICE:

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

##### INHALATION:

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

##### EYE CONTACT:

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

##### INGESTION:

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

#### **5. FIRE FIGHTING MEASURES**

##### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, foam, water

##### FIRE&EXPLOSION HAZARDS:

Toxic, irritating dust or smoke may be emitted.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

##### METHODS FOR CLEAN UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

#### **7. HANDLING AND STORAGE**

##### HANDLING:

No special measures necessary. Good laboratory technique should be used when handling.

##### STORAGE:

No special measures necessary. Store at -20°C ~ -80°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Above 100 degree C

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable, under normal handling and storage conditions.

DECOMPOSITION: No data available.

CONDITIONS TO AVOID: Contact with strong oxidants or fire.

HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA: Not available

IRRITATION DATA: Not available

MUTATION DATA: Not available

REPRODUCTIVE EFFECTS DATA: Not available

TUMORIGENIC DATA: Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY: Not available

BIOACCUMULATION POTENTIAL: Not available

AQUATIC TOXICITY: Not available

### **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

### **14. TRANSPORT INFORMATION**

IATA:	Not Restricted.
DOT(Department of Transportation):	Not a Hazardous Material for DOT shipping.

### **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.

### **16. OTHER INFORMATION**

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. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volume, or conditions of use the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY , EXPRESSED OR IMPLIED, OF ITS SUITABILITY FOR A PARTICULAR PURPOSE.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: SPU**

**Identified use: Laboratory chemicals**

**Company/Undertaking Identification**

CellFree Sciences Co., Ltd  
 Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
 Yokohama, Kanagawa 230-0045, Japan

Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## 2. HAZARDOUS IDENTIFICATION

Physical State: Aqueous solution  
 Principal Routes of exposure/Potential Health Effects  
 Eyes No information available  
 Skin No information available  
 Inhalation No information available  
 Ingestion Maybe harmful if swallowed

Specific effects

Carcinogenic Effects No information available  
 Mutagenic Effects No information available  
 Reproductive Toxicity No information available  
 Sensitization No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration,w/v%	CAS No.
Tris(hydroxymethyl)aminomethane	Less than 1	77-86-1

#### **4. FIRST AID AND MEASURES**

**GENERAL ADVICE:**

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

**INHALATION:**

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

**EYE CONTACT:**

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

**INGESTION:**

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

#### **5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:**

Carbon dioxide, dry chemical powder, foam, water

**FIRE&EXPLOSION HAZARDS:**

Toxic, irritating dust or smoke may be emitted.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:**

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

**PROCEDURE(S) OF PERSONAL PRECAUTION(S):**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

**METHODS FOR CLEAN UP:**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

#### **7. HANDLING AND STORAGE**

**HANDLING:**

No special measures necessary. Good laboratory technique should be used when handling.

**STORAGE:**

No special measures necessary. Store at -20°C ~ -80°C.



## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Above 100 degree C

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable, under normal handling and storage conditions.

DECOMPOSITION: No data available.

CONDITIONS TO AVOID: Contact with strong oxidants or fire.

HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA: Not available

IRRITATION DATA: Not available

MUTATION DATA: Not available

REPRODUCTIVE EFFECTS DATA: Not available

TUMORIGENIC DATA: Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY: Not available

BIOACCUMULATION POTENTIAL: Not available

AQUATIC TOXICITY: Not available

### **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

### **14. TRANSPORT INFORMATION**

IATA:	Not Restricted.
DOT(Department of Transportation):	Not a Hazardous Material for DOT shipping.

### **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.

### **16. OTHER INFORMATION**

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. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volume, or conditions of use the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY , EXPRESSED OR IMPLIED, OF ITS SUITABILITY FOR A PARTICULAR PURPOSE.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING

**Product Name: deSP6E01**

**Identified use: Laboratory chemicals**

### Company/Undertaking Identification

CellFree Sciences Co., Ltd  
Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
Yokohama, Kanagawa 230-0045, Japan

### Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## 2. HAZARDOUS IDENTIFICATION

Physical State: Aqueous solution  
Principal Routes of exposure/Potential Health Effects  
Eyes No information available  
Skin No information available  
Inhalation No information available  
Ingestion Maybe harmful if swallowed

### Specific effects

Carcinogenic Effects No information available  
Mutagenic Effects No information available  
Reproductive Toxicity No information available  
Sensitization No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration,w/v%	CAS No.
Tris(hydroxymethyl)aminomethane	Less than 1	77-86-1

#### **4. FIRST AID AND MEASURES**

##### GENERAL ADVICE:

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

##### INHALATION:

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

##### EYE CONTACT:

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

##### INGESTION:

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

#### **5. FIRE FIGHTING MEASURES**

##### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, foam, water

##### FIRE&EXPLOSION HAZARDS:

Toxic, irritating dust or smoke may be emitted.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

##### METHODS FOR CLEAN UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

#### **7. HANDLING AND STORAGE**

##### HANDLING:

No special measures necessary. Good laboratory technique should be used when handling.

##### STORAGE:

No special measures necessary. Store at -20°C ~ -80°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Above 100 degree C

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

STABILITY: Stable, under normal handling and storage conditions.

DECOMPOSITION: No data available.

CONDITIONS TO AVOID: Contact with strong oxidants or fire.

HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA: Not available

IRRITATION DATA: Not available

MUTATION DATA: Not available

REPRODUCTIVE EFFECTS DATA: Not available

TUMORIGENIC DATA: Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY: Not available

BIOACCUMULATION POTENTIAL: Not available

AQUATIC TOXICITY: Not available

### **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

### **14. TRANSPORT INFORMATION**

IATA:	Not Restricted.
DOT(Department of Transportation):	Not a Hazardous Material for DOT shipping.

### **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.

### **16. OTHER INFORMATION**

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. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volume, or conditions of use the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY , EXPRESSED OR IMPLIED, OF ITS SUITABILITY FOR A PARTICULAR PURPOSE.

## **1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY /UNDERTAKING**

**Product Name: PDI&Ero1a mix**

**Identified use: Laboratory chemicals**

### **Company/Undertaking Identification**

CellFree Sciences Co., Ltd  
Yokohama Bio Industry Center, 1-6 Suehiro-cho Tsurumi-ku,  
Yokohama, Kanagawa 230-0045, Japan

### Contact Information

Sales & Marketing Department

E-mail: tech-sales@cfsciences.com

Tel: +81-(0)45-345-2625

## **2. HAZARDOUS IDENTIFICATION**

Physical State:	Aqueous solution
Principal Routes of exposure/Potential Health Effects	
Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	Maybe harmful if swallowed
Specific effects	
Carcinogenic Effects	No information available
Mutagenic Effects	No information available
Reproductive Toxicity	No information available
Sensitization	No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous/Non-hazardous Components

The product contains no substances which, at their given concentration, are considered to be hazardous to health

CHEMICAL NAME	Concentration, w/v%	CAS No.
2-[4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic Acid	Less than 1	7365-45-9
Disodium Creatinephosphate Tetrahydrate	Less than 1	922-32-7
Ero1 $\alpha$	Less than 1	Not applicable
PDI	Less than 1	Not applicable
Potassium Acetate	Less than 2	127-08-2

### 4. FIRST AID AND MEASURES

#### GENERAL ADVICE:

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

#### INHALATION:

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, 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.

#### EYE CONTACT:

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

#### INGESTION:

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

### 5. FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, foam, water

#### FIRE&EXPLOSION HAZARDS:

Toxic, irritating dust or smoke may be emitted.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.



## **6. ACCIDENTAL RELEASE MEASURES**

### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors.

### METHODS FOR CLEAN UP:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## **7. HANDLING AND STORAGE**

### HANDLING:

No special measures necessary. Good laboratory technique should be used when handling.

### STORAGE:

No special measures necessary. Store at -80°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING MEASURES:

Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

### VENTILATION:

Local Exhaust; Necessary, Mechanical(General); Recommended

### PERSONAL PROTECTION;

#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear aqueous solution

BOILING POINT: Not available

MELTING POINT: Not available

FREEZING POINT: Below 0 degree C

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

## **10. STABILITY AND REACTIVITY**

### STABILITY:

Stable, under normal handling and storage conditions.

### DECOMPOSITION:

No data available.

### CONDITIONS TO AVOID:

Contact with strong oxidants or fire.

### HAZARDOUS POLYMERIZATION:

Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY DATA:	Not available
IRRITATION DATA:	Not available
MUTATION DATA:	Not available
REPRODUCTIVE EFFECTS DATA:	Not available
TUMORIGENIC DATA:	Not available

## **12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY:	Not available
BIOACCUMULATION POTENTIAL:	Not available
AQUATIC TOXICITY:	Not available

## **13. DISPOSAL CONSIDERATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules.)

## **14. TRANSPORT INFORMATION**

IATA:	Not Restricted.
DOT(Department of Transportation):	Not a Hazardous Material for DOT shipping.

## **15. REGULATORY INFORMATION**

Comply with all countries, national and local regulations.

## **16. OTHER INFORMATION**

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