

## SAFETY DATA SHEET

Version 1

Issuing Date: 17-Dec-2018

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

#### 1.1. Product identifier

**Product Code(s)** WPEK4-20015, WPEK4-20003, WPEK4-20006, WPEK4-20125, WPEK4-20025, WPEK4-50015, WPEK4-50003, WPEK4-50006, WPEK4-50125, WPEK4-50025, WPEM-20015, WPEM-20003, WPEM-20006, WPEM-20125, WPEM-20025, WPEM-50015, WPEM-50003, WPEM-50006, WPEM-50125, WPEM-50025, WPESK-0015, WPEPK4-20015

**Product Name** PYROSTAR™ ES-F Limulus Amebocyte Lysate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Product Use** Reagent.

**Uses advised against** No information available.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

FUJIFILM Europe GmbH  
Heesenstraße 31  
40549 Düsseldorf, Germany

##### Manufactured by

FUJIFILM Wako Chemicals U.S.A. Corporation  
1600 Bellwood Road  
Richmond, VA 23237

#### For further information, please contact:

**Company Phone Number** U.S.A: +804-271-7677

**E-mail Address** EHS@fujifilm.com

#### 1.4. Emergency telephone number

CHEMTREC UK: +(44)-870-8200418

<b>Europe</b>	+49 (0)211 5089 137 (9:00 a.m. to 6 p.m.)
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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.3. Other hazards

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

No dangerous ingredients according to Regulation (EC) No. 1907/2006

Full text of H- and EUH-phrases: see section 16

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	Immediate medical attention is not required.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	If swallowed, do not induce vomiting - seek medical advice.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

### 5.2. Special hazards arising from the substance or mixture

None known.

#### **Hazardous Combustion Products**

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride. Amines. Sodium oxides. Magnesium oxides.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid contact with the skin and the eyes.

**6.2. Environmental precautions**

Prevent product from entering drains.

**6.3. Methods and material for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Avoid dust formation.

Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

**6.4. Reference to other sections**

See section 7 for more information.  
See section 8 for more information.  
See Section 12 for additional Ecological Information.  
See section 13 for more information.

**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Do not breathe vapors/dust. Ensure adequate ventilation. Avoid dust formation in confined areas.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep at temperatures below 2 °C / 35.6 °F.

**7.3. Specific end use(s)**

Reagent.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limit value** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

<b>Eye Protection</b>	Tight sealing safety goggles.
<b>Hand Protection</b>	Wear protective gloves.
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory protection</b>	Ensure adequate ventilation.

**General Hygiene Considerations** When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental Exposure Controls** No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white	<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available	<b>Physical State @20°C</b>	powder
<b>pH</b>	7.1 - 7.6	<b>Flash point</b>	No information available
<b>Boiling point / boiling range</b>	No information available	<b>Decomposition temperature</b>	No information available
<b>Autoignition temperature</b>	No information available	<b>Freezing Point</b>	No information available
<b>Melting point / melting range</b>	No information available	<b>Flammability Limit in Air</b>	No information available
<b>Flammability (solid, gas)</b>	No information available	<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available	<b>Solubility</b>	Soluble in water
<b>Specific Gravity</b>	No information available	<b>Vapor Pressure</b>	No information available
<b>Evaporation rate</b>	No information available	<b>Density</b>	No information available
<b>Vapor density</b>	No information available	<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Dynamic viscosity</b>	No information available		

**Other information**  
**Molecular Weight** No information available

**10. STABILITY AND REACTIVITY**

**10.1. Reactivity**

Stable under recommended storage conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**10.4. Conditions to avoid**

This material as supplied must be carefully evaluated as a combustible dust hazard. Avoid all dusty conditions such as sweeping or careless handling of this material. This material should not be allowed to accumulate on piping, equipment, floors, ceiling components or surfaces of any kind. Combustible dust can be susceptible to human static discharge as an ignition source if proper dispersion and concentration are present. Use only approved methods to gather or clean this material.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Product Information**

<b>Acute toxicity</b>	
<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation.
<b>Skin</b>	Contact with dust can cause mechanical irritation or drying of the skin.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

No information available

**Chronic toxicity**

<b>Carcinogenicity</b>	None known.
<b>Corrosivity</b>	None known.
<b>Sensitization</b>	None known.
<b>Reproductive Toxicity</b>	None known.
<b>Mutagenic Effects</b>	None known.
<b>Target Organ Effects</b>	Skin. Eyes. Respiratory system.

**12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with federal, state and local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION**

<b>IMDG</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR/RID</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>Special precautions for users</b>	No information available.

**15. REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

<b>TSCA</b>	No
<b>EINECS/ELINCS</b>	No
<b>DSL/NDSL</b>	No
<b>PICCS</b>	No
<b>ENCS</b>	No
<b>IECSC</b>	No
<b>AICS</b>	No
<b>KECL</b>	No

**Legend**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- AICS** - Australian Inventory of Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical safety assessment**

No information available.

**16. OTHER INFORMATION**

**Prepared By** FUJIFILM Environment, Health and Safety, phone: (01) (800) 473-3854

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**Revision Date** 17-Dec-2018

**Revision Note** CLP Annex VI harmonized classification(s) and/or available REACH registration information are the primary data sources referenced in determining the classification of this product.

**This safety data sheet complies with the requirements of: Regulation (EC) No 1272/2008.**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.