



# MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

Product name: Recombinant Human basic Fibroblast Growth Factor

Product Number: HYC005M01

Brand: Oryzogen

Company: Wuhan Healthgen Biotechnology Corp.

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## 2. HAZARDS IDENTIFICATION

This substance is not classified as dangerous according to Directive 67/548/EEC.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Oryzogen<sup>TM</sup>, rbFGF

CAS-No.	EC-No.	Index-No.	Classification	Concentration
<b>basic Fibroblast Growth Factor, human A class</b>				
106096-93-9	-			Active ingredient
<b>Trehalose</b>				
99-20-7	-			Stabilizer

## 4. FIRST AID MEASURES

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.



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### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapors, mist or gas.

#### Environmental precautions

Do not let product enter drains.

#### Methods for cleaning up

Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Handling

Normal measures for preventive fire protection.

#### Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20°C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection

Safety glasses

#### Hygiene measures

General industrial hygiene practice.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form lyophilized powder

### Safety data

pH 6.5-7.5 (50µg/ml solution)

Melting point no data available

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility 100% water soluble

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions, one time dissolved-packing, to avoid repeated freezing and thawing.

### Materials to avoid

Strong oxidizing agents and high or low PH (PH>9 or PH<4)

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Irritation and corrosion

no data available

### Sensitization

no data available

### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.



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**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

### 12. ECOLOGICAL INFORMATION

**Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

### 13. DISPOSAL CONSIDERATIONS

**Product**

Observe all local environmental regulations.

**Contaminated packaging**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**ADR/RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

### 15. REGULATORY INFORMATION

**Labelling according to EC Directives**

Further information:

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 16. OTHER INFORMATION

**Further information**

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