

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HEK GM

Print date: 30.06.2021

Product code: 851-XXXXDPM

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

HEK GM

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

###### Use of the substance/mixture

Culture medium for mammalian cells.

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

Company name:	Xell AG	
Street:	Alte Verler Str. 1	
Place:	D-33689 Bielefeld	
Telephone:	+49 521 96989 200	Telefax: +49 521 96989 201
e-mail:	info@xell.de	
Contact person:	Christoph Heinrich	
e-mail:	christoph.heinrich@xell.de	
Internet:	www.xell.de	

##### 1.4. Emergency telephone number:

Emergency phone of Poisons Information Centre:+49 228 19 24 0

##### Further Information

For Research Use or Further Manufacturing only. Not for direct administration into humans or animals.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Harmful if inhaled.

Causes serious eye irritation.

##### 2.2. Label elements

###### Regulation (EC) No. 1272/2008

###### Hazard components for labelling

Putrescine x 2 HCl

Signal word: Warning

###### Pictograms:



###### Hazard statements

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

###### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
122666-87-9	L-Tyrosine, disodium salt, dihydrat			1 - < 5 %
	274-152-3			
	Eye Dam. 1; H318			
150-90-3	Succinic acid			1 - < 5 %
	205-778-7			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
333-93-7	Putrescine x 2 HCl			< 1 %
	206-375-9			
	Acute Tox. 1, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1, Eye Dam. 1; H330 H311 H302 H314 H318			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Treat symptomatically. After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

The product itself does not burn. Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry extinguishing powder.

#### Unsuitable extinguishing media

No information available.

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#### **5.3. Advice for firefighters**

Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

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

Use personal protection equipment.

#### **6.2. Environmental precautions**

No special environmental measures are necessary.

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

Collect spillage.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with skin, eyes and clothes. Use personal protection equipment.

##### **Further information on handling**

Precautions for safe handling

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

##### **Requirements for storage rooms and vessels**

Recommended storage temperature: 2-8 °C.

### SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

#### **8.2. Exposure controls**

##### **Protective and hygiene measures**

General health and safety measures.

##### **Eye/face protection**

Wear eye/face protection.

##### **Hand protection**

Tested protective gloves must be worn.

##### **Skin protection**

Only wear fitting, comfortable and clean protective clothing.

##### **Environmental exposure controls**

Environmental exposure controls.

### SECTION 9: Physical and chemical properties

#### **9.1. Information on basic physical and chemical properties**

Physical state: Powder

Colour: whitish

pH-Value (at 20 °C):

6.5 - 6.9

**Test method**

**Changes in the physical state**

### SECTION 10: Stability and reactivity

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#### 10.1. Reactivity

No known hazardous reactions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

There is no evidence available indicating any toxicity.

##### ATEmix calculated

ATE (inhalation aerosol) 2,330 mg/l

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
333-93-7	Putrescine x 2 HCl			
	oral	LD50 740 mg/kg	Ratte	MSDS Merck
	dermal	LD50 825 mg/kg	Kaninchen	MSDS Merck
	inhalation vapour	ATE 0,05 mg/l		
	inhalation aerosol	ATE 0,005 mg/l		

### SECTION 12: Ecological information

#### 12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
333-93-7	Putrescine x 2 HCl			
	aerob	>=89	28	MSDS Merck
	Leicht biologisch abbaubar			

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

The generation of waste should be avoided or minimized as far as possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of according to approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

### SECTION 14: Transport information

### SECTION 15: Regulatory information

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

