

**SAFETY DATA SHEET**

Create Date: 2021-09-12

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Ultra High Fidelity DNA Polymerase  
Cat. Number : ZXB-06-145  
CAS number : -  
Synonyms : -

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

Identified uses : For research and laboratory use only.

**1.3 Details of the supplier of the safety data sheet**

Address : Hinter den Garten 56  
89173 Lonsee  
Germany

Email : info@zellx.de  
Phone : +49(0)731 55211521  
Fax : +49(0)731 55211719

**1.4 Emergency telephone number**

Emergency phone : +49(0)731 55211521

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Substance/mixture is not classified as hazardous.

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

This product is not subject to hazardous classification.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**3.1 Substances**

Substance	CAS#	EC#	Concentration
Ultra High Fidelity DNA Polymerase M.F: Not available M.W: Not available	-	-	Not Available

**3.2 Hazardous components & classification**

No chemicals or constituents are known to be present that require disclosure under applicable regulations.

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of first aid measures

#### General advice

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

#### In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

#### In case of skin contact

Immediately wash with excess soap and water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician if symptoms are severe or persistent.

#### In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water and drink plenty of water. Consult a physician.

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

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

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

No special treatment indicated. Provide treatment in accordance with exhibited systems.

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## SECTION 5: FIRE FIGHTING MEASURES

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### 5.1 Conditions of flammability

This product considered not flammable or combustible.

### 5.2 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

### 5.3 Special hazards arising from the substance

During a fire, highly toxic gases may be generated by thermal decomposition or combustion  
- Unknown.

### 5.4 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Provide suitable ventilation especially in confined areas. Use any necessary personal protective equipment. Avoid breathing vapors, mist or gas.

**For personal protection see section 8**

### 6.2 Environmental precautions

Do not let product enter drains.

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

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

**For proper disposal see section 13**

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Provide suitable ventilation. Product may be shipped on blue ice.

**For precautions see section 2**

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

Storage conditions : Keep container tightly closed.

Storage Temperature: -20°C

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

This product is not known to contain any substances with occupational exposure limit values.

### 8.2 Engineering controls

This product is not known to contain any substances with occupational exposure limit values.

### 8.3 Personal protective equipment

- Eye/face protection : Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Body protection : Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentration and amount of substance to be handled.

Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

- a) Appearance : Not available
- b) Physical states : Liquid
- c) Odor : Mild
- d) Odor threshold : Not available
- e) Melting point : Not available
- f) Boiling point range : Not available
- g) pH : Not available
- h) Flash point : Not available
- i) Evaporation rate : Not available
- j) Flammability : Not available
- k) Upper/lower flammability or explosive limits: : Not available
- l) Vapor pressure : Not available
- m) Vapor density : Not available
- n) Relative density : Not available
- o) Solubility : Not available
- p) Partition coefficient:n-octanol/water : Not available
- q) Autoignition temperature : Not available
- r) Decomposition temperature : Not available
- s) Viscosity : Not available
- t) Explosive properties : Not available
- u) Oxidizing properties : Not available
- v) Softening point : Not available
- w) Molecular weight : Not available
- x) VOC content (%) : Not available
- y) Density : Not available
- z) Bulk density : Not available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No special reactivity is known.

### 10.2 Chemical stability

Product is stable when stored and used as recommended.

### 10.3 Possibility of hazardous reactions

Can react briskly with oxidizers - danger of explosion.

### 10.4 Conditions to avoid

Incompatible materials. Ignition sources. Heat.

### 10.5 Incompatible materials

Strong oxidizing agents are incompatible with this product and must be avoided.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under Thermal decomposition. - irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

Product does not present an acute toxicity hazard based on known or supplied information.

#### Product information

<b>Inhalation</b>	Avoid breathing vapors or mists May cause irritation of respiratory tract
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<b>Eye Contact</b>	Redness May cause slight irritation
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<b>Skin contact</b>	Prolonged contact may cause redness and irritation Repeated exposure may cause skin dryness or cracking
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<b>ingestion</b>	May cause drowsiness or dizziness Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting
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**Unknown acute toxicity:** 2.74633 % of the mixture consists of ingredient(s) of unknown.

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (inhalation-vapor) 57,000.00 mg/l

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mg/kg ( Rat )	-	-
Trade Secret	= 2600 mg/kg ( Rat )	-	-
Trade Secret	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat )1 h
Trade Secret	= 5600 mg/kg ( Rat )	-	-
Trade Secret	= 1800 mg/kg ( Rat )	-	-
Trade Secret	= 2800 mg/kg ( Rat )	-	-
Trade Secret	= 2500 mg/kg ( Rat )	-	-
Trade Secret	= 1700 mg/kg ( Rat )	-	-

**11.2 Skin corrosion/irritation**

May cause mild corrosion/irritation.

**11.3 Serious eye damage/irritation**

May cause mild damage/irritation.

**11.4 Sensitization**

Not applicable.

**11.5 Germ cell mutagenicity**

Not applicable.

**11.6 Carcinogenicity**

No Carcinogenicity data available.

**11.7 Reproductive toxicity**

No reproductive toxicity data available.

**11.8 Developmental toxicity**

No Developmental toxicity data available.

**11.9 Teratogenicity**

No Teratogenicity data available.

**11.10 Specific target organ toxicity – single exposure**

No STOT - single exposure data available.

**11.11 Specific target organ toxicity – repeated exposure**

No STOT - repeated exposure data available.

**11.12 Aspiration hazard**

No aspiration hazard data available.

**11.13 Neurological effects**

No Neurological effects data available

**11.14 Likely routes of exposure**

Respiratory organs, mouth, skin, and eyes.

**11.15 Target organ effects**

Eyes, Kidneys, Respiratory system, Skin.

**11.16 Symptoms of exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1 Toxicity

0.53833 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

### 12.2 Persistence and degradability

No Persistence and degradability data available.

### 12.3 Bioaccumulative potential

No Bioaccumulative potential data available.

### 12.4 Mobility in soil

No soil mobility data available.

### 12.5 Results of PBT and vPvB assessment

No Results of PBT and vPvB assessment data available.

### 12.6 Other adverse effect

No other adverse effect data available.

### 12.7 Endocrine disruptor information

No Endocrine disruptor information data available.

### 12.8 Ozone effect

No Ozone effect data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### Waste treatment methods

#### Relevant Information

Keep out of drains, sewers, ditches and waterways.

#### Waste from Residues/Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations. Send to a licensed recycler, reclaimer or incinerator.

#### Contaminated packaging

Empty containers must be tripled rinsed prior to disposal.

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## SECTION 14: TRANSPORTATION INFORMATION

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### 14.1 ICAO(air)

UN/ID No	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None.

#### 14.2 IMDG

UN/ID No	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Marine pollutant	Not applicable
Special Provisions	None

Transport in bulk according to  
Annex II of MARPOL 73/78 and the  
IBC Code No information available.

#### 14.3 IATA

UN/ID No	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None

#### 14.4 ADR

UN/ID No	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None

#### 14.5 RID

UN/ID No	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Special Provisions	None



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## SECTION 15: OTHER INFORMATION

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### 16.1 Disclaimer

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### 16.2 Preparation Information

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