

EliZyme™ HS Robust polymerase (EliZyme™ HS Robust, EZ5805, EZ5810, EZ5820)**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****1.1 Product information**

Commercial Product Name: EliZyme™ HS Robust polymerase
(EliZyme™ HS Robust, EZ5805, EZ5810, EZ5820)

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

Use of the Substance/Mixture: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Company: ELISABETH PHARMACON, spol. s r.o.
Rokycanova 5, 615 00 Brno,
Czech Republic

Telephone: +420 542 213 851

Fax: +420 542 213 827

E-mail: info@elisabeth.cz

1.4 Emergency telephone number

Centre for detoxification Prague: +420 224 91 92 93/ +420 224 91 54 02

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Hazardous ingredients**

Chemical Name	CAS-No.	EINECS-No.	Classification according to Regulation (EC) No 1272/2008 [CLP]	REACH registration number	Weight percent
glycerol	56-81-5	200-289-5	Not classified	01-2119471987-18-XXX	30-60

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice: No special measures required.

If inhaled: Move to fresh air.
Consult a physician if necessary.

In case of skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

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If symptoms persist, call a physician.

In case of eye contact: Remove contact lenses.
Protect unharmed eye.
Rinse thoroughly with plenty of water for several minutes.

If swallowed: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Not applicable.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: None.

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters: No special measures required.

Other information: In case of fire / explosion, avoid inhalation of vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions: Use personal protective equipment.
Avoid inhalation of dust / gas / fog / fluid vapor.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

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Advice on safe handling: For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Use personal protective equipment as required. No special handling advices are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage: Keep in a dry, cool and well-ventilated place. Keep in properly areas and containers labelled containers.

Advice on common storage: Do not store near acids.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): Laboratory chemicals

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters**

56-84-5 glycerol

WEL Long-term value: 10 mg/m³

8.2 Exposure controls

Personal protective equipment

Eye protection: Safety glasses

Hand protection Remarks: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection: Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance: liquid

Colour: colourless

Odour: odourless

Odour Threshold: No data available

pH: No data available

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: No data available

Flammability (solid, gaseous): No data available

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Ignition temperature:	No data available
Burning rate:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Relative density:	No data available
Density:	No data available
Solubility(ies)	
Water solubility:	soluble
Solubility in other solvents:	No data available
Partition coefficient:	
n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid

Conditions to avoid: No data available

10.5 Incompatible materials

Materials to avoid: No data available

10.6 Hazardous decomposition products

Hazardous decomposition products: No dangerous decomposition products known.

EliZyme™ HS Robust polymerase (EliZyme™ HS Robust, EZ5805, EZ5810, EZ5820)**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Toxicological information for the product***Components:*

Glycerol

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin corrosion/irritation

No irritating effect.

Remarks:

Generally the product does not irritate the skin.

Serious eye damage/eye irritation

No irritating effect.

Respiratory or skin sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information..

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Not classified based on available information.

Aspiration toxicity

No data available

Further information

No data available

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

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No data available

12.3 Bioaccumulative potential

Bioaccumulation: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information: Slightly hazardous for water.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste from residues: Dispose of as hazardous waste in compliance with local and national regulations. Do not allow product to reach sewage system.

Contaminated packaging: Dispose of as unused product.
Do not re-use empty containers.**SECTION 14. TRANSPORT INFORMATION****14.1 UN number**

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

EliZyme™ HS Robust polymerase (EliZyme™ HS Robust, EZ5805, EZ5810, EZ5820)**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Candidate List of Substances of Very High: Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable

15.2 Chemical Safety Assessment

No data available

SECTION 16. OTHER INFORMATION

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.