



## MATERIAL SAFETY DATA SHEET In accordance with (EU) 2015/830

### SECTION 1. IDENTIFICATION

<b>Product name</b>	PCR Mix
<b>Manufacturer or supplier's details</b>	GENETEK BIOPHARMA GmbH. Schwarzschildstraße 6. 12489 Berlin, Germany
<b>Telephone</b>	0049-3063927050
<b>Responsible Department</b>	GENETEK BIOPHARMA GmbH. Schwarzschildstraße 6. 12489 Berlin, Germany
<b>Responsible/issuing person</b>	Prof. Sirous Zeinali
<b>E-mail address</b>	zeinali@genetek.de
<b>Recommended use of the chemical</b>	Laboratory chemicals

### SECTION 2. COMPOSITION/ INFORMATION ON INGREDIENTS

**Within the best of the supplier's current knowledge, the product does not contain any substances, which at their given concentrations are considered hazardous to health.**

We recommend handling all chemicals with caution.

### SECTION 3. HAZARD(S) IDENTIFICATION

<b>Classification according to GHS</b>	Not Hazardous
<b>Health hazards</b>	None
<b>Environmental hazards</b>	None
<b>Label elements</b>	
Labelling according to Regulation (EC) No 1272/2008 [CLP]	
<b>Hazard pictogram</b>	None
<b>Signal Word</b>	None
<b>Hazard Statements</b>	Not Applicable

## SECTION 4. FIRST AID AND MEASURES

<b>General advice</b>	Show this material safety data sheet to the doctor in attendance.
<b>If inhaled</b>	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>In case of skin contact</b>	Wash off immediately plenty of water for at least 15 minutes. If symptoms persist, call a physician.
<b>In case of eye contact</b>	Rinse the exposed eye(s) and the under the eyelid(s) thoroughly with plenty of water for at least 15 minutes. Consult a physician if symptoms occur.
<b>If swallowed</b>	Rinse mouth with water and drink plenty of water afterwards. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	Skin and eye irritation. Risk of respiratory and gastrointestinal issues.
<b>Notes to physician</b>	Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use measures appropriate to the surrounding fire.
<b>Specific hazards during fire fighting</b>	No data available.
<b>Hazardous combustion products</b>	No data available.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Put on appropriate personal protective material. Avoid contact with skin and the eyes. Avoid breathing vapors, mist or gas. If the ventilation is not sufficient, wear appropriate ventilator.
<b>Methods for cleaning up</b>	Restrain spillage or leakage if safe to do so. Sweep up and transfer to properly labelled suitable containers for disposal.
<b>Advice on protection against fire and explosion</b>	Normal measures for preventive fire protection.
<b>Environmental precautions</b>	Do not allow spilled material or runoff to get in contact with water sources or soil. Inform relevant authorities if the product leaked into the environment.

## SECTION 7. HANDLING AND STORAGE

<b>Advice on general occupational hygiene</b>	Smoking, eating and drinking should be prohibited in the application area. Workers should make sure to wash hands and face before eating, drinking or smoking. Remove contaminated clothes before entering eating areas.
<b>Advice on safe handling</b>	Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Use appropriate personal protective equipment (Section 8).
<b>Conditions for safe storage</b>	Keep tightly closed in original container away from direct sunlight, in a cool, dry, well-ventilated area and away from incompatible materials (Section 10).
<b>Recommended storage temperature</b>	-20°C

## SECTION 8. EXPOSURE CONTROL/ PERSONAL PROTECTION

<b>Ingredients with workplace control parameters contains</b>	No data available
<b>General protective and hygienic measures</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Engineering measures</b>	Ventilation systems Eyewash stations Showers
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Hand protection</b>	Handle with gloves. Gloves must be inspected prior to use. To avoid skin contact with this product, remove gloves without touching the outer surface. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Eye protection</b>	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).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical properties</b>	Colorless liquid
<b>Chemical properties</b>	The product's chemical properties have not been fully investigated.

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None known based on information available
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Hazardous decomposition products</b>	None known.
<b>Conditions to avoid</b>	No data available
<b>Materials to avoid</b>	No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral toxicity</b>	No specific test data available.
<b>Acute Inhalation toxicity</b>	No specific test data available.
<b>Acute Dermal toxicity</b>	No specific test data available.
<b>Other information on acute toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory sensitization</b>	No data available
<b>Skin sensitization</b>	No data available
<b>Ingestion</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
<b>Reproductive toxicity</b>	No data available
<b>STOT-single exposure</b>	No data available
<b>STOT-repeated exposure</b>	No data available
<b>Interactive effects</b>	No data available
<b>Aspiration toxicity</b>	No data available
<b>Further information</b>	No data available.
<b>Potential health effects</b>	The toxicological properties have not been fully investigated.

## SECTION 12. ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	No data available
<b>Toxicity to algae</b>	No data available
<b>Toxicity to bacteria</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in soil</b>	The product is likely to be mobile in the environment due to its water solubility
<b>Other adverse effects</b>	No data available
<b>Additional ecological information</b>	No data available

### SECTION 13. DISPOSAL CONSIDERATION

<b>Disposal methods</b>	Avoid disposal of the product directly into the environment. Treat appropriately in accordance with the local regulations before disposal.
<b>Contaminated packaging</b>	Avoid reusing empty containers.

### SECTION 14. TRANSPORT INFORMATION

<b>UNRTG</b>	No data available
<b>IATA- DGR</b>	No data available
<b>IMDG Code</b>	No data available
<b>SARA 302</b>	No data available
<b>SARA 304</b>	No data available
<b>SARA 311/312 Hazards</b>	No data available
<b>SARA 313</b>	No data available
<b>TSCA list</b>	Not listed

### SECTION 15. REGULATORY INFORMATION

**853/2015** COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

**1272/2008** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**89/391** COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

**1907/2006** REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I

## SECTION 16. OTHER INFORMATION

### ABBREVIATIONS

HCS	Hazard Communication Standard
OSHA	Occupational Safety and Health Administration
GSH	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
NTP	US National Toxicity Program
STOT	Specific Target Organ Toxicity
UNRTG	United Nations Recommendations on the Transport of Dangerous Goods
IATA-DGR	International Air Transport Association- Dangerous Goods Regulations
ADR	Transport of Dangerous Goods by Roads
DOT-US	US Department of Transportation
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution from Ships
TSCA	United States Toxic Substances Control Act 8(b) Inventory

### IMPORTANT DISCLAIMER

The information provided in this Material 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.