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## **SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

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### **1.1 Product identifier :**

Substance name : PCR Buffer, 10X, with Mg++, Optimized for Si-Taq Polymerase

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

Recommended restrictions on use : For professional users only.

Recommended use: Laboratory chemicals

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

Manufacturer / Supplier : ROJETechnologies

Street address / P.O. Box : ROJE street, 69<sup>th</sup> alley, Foroudgah blvd, Sanaat square, 8917357485,  
Yazd, Iran

Country ID / Postcode / Place : Iran

Telephone number : +98 35 3723 7122

TeleFax : +98 35 3723 7122

E-Mail : safety@rojetechnologies.co

National contact: ROJETechnologies

### **1.4 Emergency Telephone Number**

Opening Hours: 8-15:00 Sa to Wed and 8-13:00 Thurs

Language Of The Phone Service: English/ Persian

Only Available During Office Hours.

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## **SECTION 2: Hazards Identification**

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

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### **2.2 Label elements**

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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## 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

### 3.2 Mixtures Hazardous components

Remarks: No hazardous ingredients

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

**If inhaled:** Move to fresh air. If symptoms persist, call a physician.

**In case of skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**In case of eye contact:** Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 Minutes and consult a physician.

**If swallowed:** If accidentally swallowed obtain immediate medical attention.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed Symptoms :**  
No information available.

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

#### Treatment:

No information available.

## SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media:

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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 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:

Carbon oxides  
Nitrogen oxides (NOx)

## 5.3 Advice for firefighters

Special protective equipment  
for firefighters:

Wear self-contained breathing apparatus for  
Firefighting if necessary.

### Further information:

In the event of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

Personal precautions:

Use personal protective equipment.

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

### 6.2 Environmental precautions

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

Methods for cleaning up:

Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling:

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

### Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

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**Hygiene measures:**

Keep away from food and drink.  
When using do not eat, drink or smoke.

**7.2 Conditions for safe storage, including**

any incompatibilities 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 chemical

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**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:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Footwear protecting against chemicals

**SECTION 9: Physical and chemical properties**

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### 9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	No data available
Odour:	characteristic
Odour Threshold:	No data available
pH:	8.7
Melting point/range:	No data available
Boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	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:	No data available
Solubility in other solvents:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not determined
Decomposition temperature:	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

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Hazardous reactions:

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

#### 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

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity:

No data available

Acute inhalation toxicity:

No data available

Acute dermal toxicity:

No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks:

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks:

May irritate eyes.

Respiratory or skin sensitization

Skin sensitization:

Not classified based on available information.

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Respiratory 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.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

No data available

## SECTION 12: Ecological information

Ecotoxicity

Product:

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

Persistence and degradability No data available

Bioaccumulative potential

Product:

Bioaccumulation: No data available

Mobility in soil No data available

Other adverse effects

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Product:

Ozone-Depletion Potential:

Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone-CAA Section 602  
Class I Substances

Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined  
by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt.  
A, App.A + B).

Additional ecological information:

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging:

Empty containers should be taken to an approved waste  
handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

No data available

Domestic regulation

49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

EPCRA-Emergency Planning and Community Right-to-Know

SARA 304 Extremely Hazardous Substances Reportable Quantity



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This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:

No SARA Hazards

SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:

This material does not contain any chemical components With known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

(Q)SA R-(Quantitative) Structure Activity Relationship; ASTM-American Society for the Testing of Materials; bw -Body weight; DIN-Standard of the German Institute for Standardisation; ECx-Concentration associated with x% response;ELx-Loading rate associated with x% response;EmS-Emergency Schedule; ErCx-Concentration associated with x% growth rate response;GHS-Globally Harmonized System; IARC-International Agency for Research on Cancer; IATA-International Air Transport Association; IBC-International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 Half maximal inhibitory concentration; ICAO-International Civil Aviation Organization; IMDG-International Maritime Dangerous Goods; IMO-International Maritime Organization; ISO-International Organization for Standardization; LC50-Lethal Concentration to 50 % of a test population; LD50-Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL-International Convention for the Prevention of Pollution from Ships; n.o.s.-Not Otherwise Specified; NO(A)EC-No Observed (Adverse) Effect Concentration; NO(A)EL-No Observed (Adverse) Effect Level; NOELR-No Observable Effect Loading Rate; OECD-Organization for Economic Co-operation and Development; OPP TS-Office of Chemical Safety and Pollution Prevention; PBT-Persistent,

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Bioaccumulative and Toxic substance; REACH-Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT-Self-Accelerating Decomposition Temperature; SDS-Safety Data Sheet; UN-United Nations; vP vB-Very Persistent and Very Bioaccumulative; DSL-Domestic Substances List (Canada); KECI-Korea Existing Chemicals Inventory; TSCA-Toxic Substances Control Act (United States); AICS-Australian Inventory of Chemical Substances; IECS C-Inventory of Existing Chemical Substances in China; ENCS-Existing and New Chemical Substances (Japan); ISHL-Industrial Safety and Health Law (Japan); PICCS-Philippines Inventory of Chemicals and Chemical Substances; NZIoC-New Zealand Inventory of Chemicals; TCSI-Taiwan Chemical Substance Inventory; CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act; DOT-Department of Transportation; EHS-Extremely Hazardous Substance; HMIS-Hazardous Materials Identification System; MSHA-Mine Safety and Health Administration; NFPA-National Fire Protection Association; RCRA-Resource Conservation and Recovery Act; RQ-Reportable Quantity; SARA-Superfund Amendments and Reauthorization Act; CMR-Carcinogen, Mutagen or Reproductive Toxicant; GLP-Good Laboratory Practice; ERG-Emergency Response Guide; NTP-National Toxicology Program; UNRTDG-United Nations Recommendations on the Transport of Dangerous Goods