

## SECTION 1: Identification

### 1.1 Product identifier

Product name 10X Reaction (MgCl<sub>2</sub>) Buffer

### 1.2 Other means of identification

Item number: RB-MG

### 1.3 Recommended use of the chemical and restrictions on use

Laboratory Chemicals

### 1.4 Supplier's details

Name Empirical Bioscience  
Address 4635 40<sup>th</sup> Street SE  
Grand Rapids, MI 49508  
USA  
  
Telephone 1-877.479.9949  
Email empirical-customer.service@fortislife.com

### 1.5 Emergency phone number(s)

1-877.479.9949

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200) and Regulation (EC) No 1272/2008 [CLP]

Not a hazardous substance or mixture.

### 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC)

No data available.  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Component	Concentration
Potassium chloride (CAS no.: 7447-40-7)	3.7 % (weight)
Tris HCl buffer (CAS no.: 1185-53-1)	1.6 % (weight)

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**SECTION 4: First-aid measures****4.1 Description of necessary first-aid measures**

If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Wash with plenty of soap and water. Get medical attention if irritation develops or persists.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms/effects, acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically and supportively.

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**SECTION 5: Fire-fighting measures****5.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Specific hazards arising from the chemical**

No data available.

**5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection recommended in Section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**6.2 Environmental precautions**

Avoid release to the environment. Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material. Pick up and keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practices. Wash hands with soap and water after handling.

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

Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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

No applicable occupational exposure limits

**8.2 Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

**8.3 Individual protection measures, such as personal protective equipment (PPE)****Pictograms****Eye/face protection**

Safety glasses are recommended.

**Skin protection**

Wear protective gloves, such as nitrile gloves.

**Body protection**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Provide good ventilation. Respiratory protection is not required under normal use conditions.

**Thermal hazards**

No data available.

**Environmental exposure controls**

Avoid release to the environment. Do not allow to enter sewers/ surface or ground water.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Colorless liquid
Odor	Characteristic
Odor threshold	No data available.
pH	8.4
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	Not flammable.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	Fully miscible with water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Organic Solvents	0.0%
Water	43.5%
Solids content	56.5%

### Other safety information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Non-reactive under normal use conditions.

### 10.2 Chemical stability

Stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Strong oxidizers, strong acids, strong bases, reactive metals.

### 10.6 Hazardous decomposition products

No data available.

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**SECTION 11: Toxicological information****Information on toxicological effects**

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

**Acute toxicity**

Based on available data, classification data are not met.

**Skin corrosion/irritation**

Based on available data, classification data are not met. Overexposure may cause skin irritation.

**Serious eye damage/irritation**

Based on available data, classification data are not met. May cause mild eye irritation.

**Respiratory or skin sensitization**

Based on available data, classification data are not met.

**Germ cell mutagenicity**

Based on available data, classification data are not met.

**Carcinogenicity**

Based on available data, classification data are not met.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

Based on available data, classification data are not met.

**STOT-single exposure**

Based on available data, classification data are not met.

**STOT-repeated exposure**

Based on available data, classification data are not met.

**Aspiration hazard**

Based on available data, classification data are not met.

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**SECTION 12: Ecological information****Toxicity**

No data available on product

**Persistence and degradability**

No data available on product

**Bioaccumulative potential**

No data available on product

**Mobility in soil**

No data available on product.

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No ecological problems are to be expected when the product is handled and used with due care and attention. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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**SECTION 13: Disposal considerations****Disposal of the product**

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

**Disposal of contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information****14.1 UN-Number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing group**

Not applicable

**14.5 Environmental hazards**

No data available.

**14.6 Special precautions for user**

No data available.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### California Prop. 65 Components

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

#### SARA 302 Components

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

#### SARA 311/312 Hazards

No SARA hazards.

#### SARA 313 Components

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.

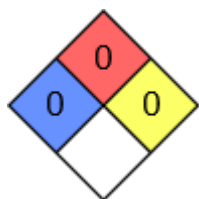
#### TSCA (Toxic Substances Control Act)

All of the ingredients are listed.

#### HMIS Rating

10X Reaction (MgCl <sub>2</sub> ) Buffer	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

#### NFPA Rating



## SECTION 16: Other information

### 16.1 Further information/disclaimer

Date of issue: October 07, 2022.

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