

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### 10x RT-IC Running Buffer (RB 1)

Revision date: 05/31/2023

Product code: BU-RB-10-1

Page 1 of 8

## 1. Identification

### Product identifier

10x RT-IC Running Buffer (RB 1)

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

#### Use of the substance/mixture

laboratory reagent. Research and Development.

#### Uses advised against

Any non-intended use.

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

Company name: Dynamic Biosensors Inc.  
Street: 300 Trade Center, Suite 1400  
Place: USA-01801 Woburn, MA  
Telephone: +1 781 404 6126

**Emergency phone number:** CONTACT (24-Hour-Number): GBK GmbH 01149-6132-84463

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

### Label elements

#### Additional advice on labelling

Label elements GHS: None

### Hazards not otherwise classified

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

## 3. Composition/information on ingredients

### Mixtures

#### Chemical characterization

The product does not contain dangerous substances to be mentioned in Chapter 3.

#### Hazardous components

none (according to 29 CFR 1910.1200(g))

## 4. First-aid measures

### Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### 10x RT-IC Running Buffer (RB 1)

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 2 of 8

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

## 5. Fire-fighting measures

#### Extinguishing media

##### Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

##### Unsuitable extinguishing media

High power water jet.

#### Specific hazards arising from the chemical

Can be released in case of fire: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

#### Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## 6. Accidental release measures

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

##### General advice

See protective measures under point 7 and 8.

##### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

##### For emergency responders

No special measures are necessary.

#### Environmental precautions

Discharge into the environment must be avoided.

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

##### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

##### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

#### Precautions for safe handling

##### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### 10x RT-IC Running Buffer (RB 1)

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 3 of 8

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

#### Further information on handling

General protection and hygiene measures: refer to chapter 8

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

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

##### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

##### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

## 8. Exposure controls/personal protection

#### Control parameters

##### Additional advice on limit values

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### Exposure controls

##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). Standards: EN 166 or 29 CFR 1910.133

##### Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of the glove material 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of the glove material 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of the glove material 0,5 mm

Breakthrough time  $\geq$  8 h

The selected protective gloves should satisfy the specifications of standards like EN 374.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Skin protection

Suitable protective clothing: Lab apron.

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**10x RT-IC Running Buffer (RB 1)**

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 4 of 8

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.  
 Respiratory protection necessary at:  
 Exceeding exposure limit values  
 Suitable respiratory protective equipment: half-mask with filter EN 149 or 29 CFR 1910.134 .  
 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

No special precautionary measures are necessary.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

Physical state:	liquid	
Color:	colourless	
Odor:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		SECTION 12: Ecological information
Vapor pressure:		not determined
Density:		not determined
Relative vapour density:		not determined

**Other information**

**Information with regard to physical hazard classes**

Explosive properties		
none		
Sustaining combustion:		Not sustaining combustion
Self-ignition temperature		
Gas:		not determined
Oxidizing properties		
none		

**Other safety characteristics**

Evaporation rate:		not determined
Solvent separation test:		not determined
Solvent content:		not determined
Solid content:		not determined
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Viscosity / dynamic:		not determined

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### 10x RT-IC Running Buffer (RB 1)

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 5 of 8

Flow time:

not determined

## 10. Stability and reactivity

### Reactivity

No information available.

### Chemical stability

Stability: Stable

The product is chemically stable under recommended conditions of storage, use and temperature.

### Possibility of hazardous reactions

Hazardous reactions: Will not occur

Refer to chapter 10.5.

### Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

### Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

### Hazardous decomposition products

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological information

### Route(s) of Entry

Ingestion: May be harmful if swallowed. Inhalation: May be harmful if inhaled. Skin contact: May cause irritation. Eye contact: May cause irritation.

### Information on toxicological effects

#### **Toxicokinetics, metabolism and distribution**

No data available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) 273077 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

#### **Sensitizing effects**

Based on available data, the classification criteria are not met.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Specific effects in experiment on an animal**

No data available.

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**10x RT-IC Running Buffer (RB 1)**

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 6 of 8

**Information on other hazards**

**Endocrine disrupting properties**

No data available.

**12. Ecological information**

**Ecotoxicity**

The product has not been tested.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

No indication of bioaccumulation potential.

**Mobility in soil**

No data available.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

**13. Disposal considerations**

**Waste treatment methods**

**Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**14. Transport information**

**U.S. DOT 49 CFR 172.101**

**Proper shipping name:**

Not a hazardous material with respect to these transport regulations. &&  
 Not controlled under DOT

**Marine transport (IMDG)**

**UN number or ID number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

**UN number or ID number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**10x RT-IC Running Buffer (RB 1)**

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 7 of 8

refer to chapter 6 - 8

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

not relevant

**15. Regulatory information**

**U.S. Regulations**

**National Inventory TSCA**

All components are listed in the TSCA 8 (b) inventory as "active" or exempted.

**State Regulations**

**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

This mixture is classified as not hazardous according to Regulation 29 CFR Part 1910.1200.

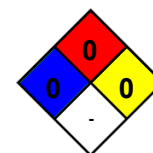
**16. Other information**

**Hazardous Materials Identification System (HMIS)**

Health:	0
Flammability:	0
Physical Hazard:	0
Personal Protection:	-

**NFPA Hazard Ratings**

Health:	0
Flammability:	0
Reactivity:	0
Unique Hazard:	-



**Changes**

Revision date:	05/31/2023
Revision No:	1,0
Rev. 1,0; Initial release:	31.05.2023

**Abbreviations and acronyms**

- ACGIH: American Conference of Governmental Industrial Hygienists
- ASTM: American Society for Testing and Materials.
- ATE: acute toxicity estimate
- BCF: Bio concentration factor
- ECHA: European Chemicals Agency
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- d: days
- EC50: Half maximal effective concentration
- EN: European Norm
- EPA: Environmental Protection Agency
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- h: hours
- HMIS: Hazardous Materials Identification System
- IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
- IBC: Intermediate Bulk Container
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### 10x RT-IC Running Buffer (RB 1)

Revision date: 05/31/2023

Product code: BU-RB-10-1\_US

Page 8 of 8

ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
MARPOL: marine pollution  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect concentration  
NTP: National Toxicology Program  
N/A: not applicable  
NFPA: National Fire Protection Association  
UN: United Nations  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent bioaccumulative toxic  
RTECS: Registry of Toxic Effects of Chemical Substances  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
SARA: Superfund Amendments and Reauthorization Act  
STEL: short-term exposure limits  
TSCA: Toxic Substances Control Act  
TWA: time weighted average  
VOC: Volatile Organic Compounds

#### Other data

Classification according 29 CFR Part 1910.1200: - Classification procedure:  
Health hazards: Calculation method.  
Environmental hazards: Calculation method.  
Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*