

# SAFETY DATA SHEET

According to Regulation (EU) No. 2020/878

## TR Buffer

Version  
4.0

Revision Date:  
2025/01/01

Date of last issue: 2025/01/01  
Date of first issue: 2021/05/11

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: TR Buffer

Product number: 1000028505

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

Recommended restrictions: For research use only

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

Company	Wuhan MGI Tech Co.,Ltd
Address	Building 24, Stage 3.1, BioLake Accelerator No.388 2nd Gaoxin Road, East Lake High-Tech Development Zone 430075 Wuhan P.R. China.
Zip code	518083
Web	<a href="https://en.mgi-tech.com">https://en.mgi-tech.com</a>
E-mail	<a href="mailto:MGI-service@mgi-tech.com">MGI-service@mgi-tech.com</a>
TEL.	+86 4000-966-988

#### 1.4 Details of the EU supplier for the Safety Data Sheet

Company	Latvia MGI Tech, SIA
Address	Lidostas parks, Marupes pag., Marupes nov., LV-2167, Latvia
Zip code	LV-2167
Web	<a href="http://en.mgitech.cn">http://en.mgitech.cn</a>
E-mail	<a href="mailto:mgi.lv@genomics.cn">mgi.lv@genomics.cn</a>
TEL.	+371 67074475

#### 1.5 Emergency telephone number

+86 4000-966-988

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Irrit. 2;H319

Causes serious eye irritation.

#### Adverse physicochemical, human health and environment

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:



**Signal Word: Danger**

#### Hazard statements

H319 Causes serious eye irritation.

#### Precautionary statements

##### Prevention

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, face protection.

##### Response

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice or attention.

##### Storage

No CLP storage statements

##### Disposal

No CLP disposal statements

##### EUH-statements:

No CLP disposal statements.

### 2.3 Other hazards

This product contains no PBT/vPvB chemicals.

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This product contains no endocrine disrupting chemicals.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Product Name: : TR Buffer			
ingredient	CAS-No.	Concentration (% w/w)	Classification
Water	7732-18-5	75%~78%	Not Classified
Edetic acid(EDTA)	60-00-4	20%	Eye Irrit. 2;H319
Sodium chloride	7647-14-5	1%-5%	Not Classified
Other components	-	< 1%	Not Classified

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice :	<p>Leave this dangerous place</p> <p>Contact a doctor</p> <p>Present this SDS to the doctor present</p> <p>Don't let the victim be left unattended</p>
If inhaled :	<p>Call your doctor immediately or call the National Emergency Advice for Hazardous Chemicals.</p> <p>Transfer to fresh air.</p> <p>If you are unconscious ,place it in a recovery position and seek medical advice.</p>
In case of skin contact :	<p>If skin or hair contact occurs remove contaminated clothing and wash skin and hair with tap water.</p> <p>Seek medical advice if there is swelling, redness, blisters or irritation.</p> <p>Seek medical attention promptly</p>
In case of eye contact :	<p>If you come into contact with your eyes, rinse your eyes with plenty of water and seek medical advice.</p> <p>Continue to flush your eyes while transporting to the hospital.</p> <p>Remove the contact lens.</p> <p>Protect the eyes without injuries.</p> <p>Keep your eyes wide when you rinse.</p> <p>If you still have eye irritation, consult a specialist.</p> <p>Keep the airway open.</p>
If swallowed :	<p>Do not induce vomiting.</p> <p>Do not give milk or alcoholic beverages.</p> <p>Never feed anything that is unconscious to your mouth..</p> <p>The victim was taken to the hospital immediately.</p> <p>Rinse with water.</p>

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

In case of inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of discomfort seek medical attention.

In case of skin contact: Wash off with soap and plenty of water for at least 15 minutes. In case of discomfort seek medical attention.

In case of eye contact: Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after the

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initial 1-2 minutes and continue flushing. In case of discomfort seek medical attention.

In case of ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. In case of discomfort seek medical attention.

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

- 1.Treat symptomatically.
- 2.Symptoms may be delayed.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Extinguish with water mist, alcohol-resistant foam, dry powder or carbon dioxide

Unsuitable extinguishing media

NO DATA

### 5.2 Special hazards arising from the substance or mixture

No information available.

### 5.3 Advice for firefighters

Special protective equipment for firefighters :

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.

Use a water spray to cool fully closed containers

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## SECTION 6: Accidental release measures

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

Personal precautions :

Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions :

Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If there is pollution in the sewer or waterway, please report to the local authorities.

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

*a lot of leaks:*

Use an inert absorbent material such as sand or soil to absorb spillage.  
Collect spilled product and place it in a sealable container or bucket for disposal.  
Clean contaminated areas and objects with plenty of water and detergent.

*Small amount of leakage:*

Absorbing materials such as sand or soil absorb spillage.  
Collect spilled product and place it in a sealable container for disposal.  
Clean contaminated areas and objects with water and detergent

### 6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Avoid the formation of aerosols.
- Do not breathe steam/dust.
- Avoid contact - get special instructions before use.
- Avoid contact with skin and eyes.
- See section 8 for personal protection.
- Smoking, eating and drinking areas should be prohibited during use.
- Take precautions to prevent electrostatic discharge.
- Provide adequate air exchange and/or exhaust in the workroom.
- Dispose of rinse water in accordance with local and national regulations.
- To prevent leakage or spillage, provide a suitable liquid retention system.

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

- Keep containers in a dry, cool and well-ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces.
- Store away from incompatible materials and foodstuff containers.
- Storage temperature generally should be -25°C~ -15°C, relative humidity generally should not be higher than 80%.

### 7.3 Specific end use(s)

No additional information available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No additional information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

Safety shower. Eyewash station. Ensure good ventilation of the work station.

#### Personal protection equipment

##### Eye and face protection

Safety glasses with side shields.

##### Skin protection

Wear suitable protective clothing.

##### Hand protection

Protective gloves.

##### Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

##### Thermal hazard protection

No information available.

##### Environmental exposure controls

Avoid release to the environment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance and shape:	colourless liquid
odor:	No data
pH value:	No data
Melting point / freezing point:	No data
Boiling point:	No data
Flash point:	No data
Upper explosion limit:	No data
Lower explosion limit:	No data
Vapor Pressure:	No data
Vapor density	No data
density	No data
Solubility	Soluble in water
N-octanol/water partition coefficient	No data
Auto-ignition temperature	No data
Decomposition temperature	No data

### 9.2 Other information-Information with regard to physical hazard classes

#### Information with regard to physical hazard classes

No additional information available

#### Other safety characteristics

No additional information

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## SECTION 10: Stability and reactivity

### 10.1 Stability

Stable under the recommended storage conditions.

### 10.2 Possibility of hazardous reactions

No hazardous reactions when stored and handled within normal conditions of use.

### 10.3. Conditions to avoid

Avoid extremes of temperature and direct sunlight.

Avoid contact with incompatible  
materials.

### 10.4 Incompatible materials

Oxidising agents and alkalis.

### 10.5 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### For Edetic acid (EDTA):

LD50(oral): 4500 mg/kg (Rat)

LD50(dermal): 30 mg/kg (Rat)

##### For Sodium chloride:

Oral LD50(rats): 3550 mg/kg bw

Dermal LD50(rabbit): >10000 mL/kg bw

LC50(inhalation,4h) > 42 mg/L air

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/eye irritation

Serious eye damage/irritation Category 2, Causes serious eye irritation.

#### Respiratory or skin allergies

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available

#### Specific target organ toxicity (one exposure)

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No data available

### Specific target organ system toxicity (repeated exposure)

No data available

### Aspiration hazard

No data available

### Additional information

No data

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

#### Adverse health effects caused by endocrine disrupting properties :

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 11.2.2 Other information

#### Potential adverse human health effects and symptoms :

No additional information available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### For Edetic acid (EDTA):

Fish LC50 :	>100mg/L/96h
Aquatic Invertebrates EC50/LC50 :	140 mg/L/48h
aquatic algae and cyanobacteria EC50:	>60ug/L

#### For Sodium chloride:

Fish LC50 :	5840 mg/L/96h
Aquatic Invertebrates EC50/LC50 :	1900mg/L/48h
aquatic algae and cyanobacteria EC50:	2430 mg/L/72h

### 12.2 Persistence and degradability

No data available

### 12.3 Potential bioaccumulation

No data available

### 12.4 Soil migration

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

#### Adverse effects on the environment caused by endocrine disrupting properties:

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

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No additional information available.



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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No  Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<i>Regulation (EU) No. 2020/878:</i>
<i>Regulation (EC) No. 1907/2006:</i>
<i>Guidance on the compilation of SDS 2015.11</i>
<i>EU regulation No. 2015/830</i>

### 15.2 Chemical safety assessment

Please note that waste disposal should also comply with local regulations.

No chemical safety assessment has been carried out.

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## SECTION 16: Other information

### Abbreviations and acronyms

DSL/NDL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS	Japanese Existing and New Chemical Substances
IECSC	Chinese Inventory of Existing Chemical Substances
KECL	Korea Existing Chemicals List
PICCS	The Philippine Inventory of Chemicals and Chemical Substances
AICS	The Australian Inventory of Chemical Substances

### Abbreviations and acronyms

ED: Endocrine disruptor

### Full text of H- and EUH-statements

No information available.

### Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**END OF SDS.**