

Trade name: 0.5X KBB Buffer

Product No: 190039

Version: 1.0 / EN

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier:** Tris-TAPS Electrophoresis Buffer (mixture)**Product name:** 0.5X KBB electrophoresis buffer, 1 liter**Cat. No.:** KBB1001**Other means of ID:** None**Hazard components for labelling:** None**REACH Registration:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses:** Used with Gel Electrophoresis of DNA.**Uses advised against:** Life sciences research only.**1.3 Details of the supplier of the safety data sheet:****Supplier:**

Sage Science, Inc.
500 Cumming Center
Suite 2400
Beverly, MA 019195
Tel: 978-922-1832
E-Mail : support@sagescience.com

1.4 EMERGENCY TELEPHONE NUMBER:**(US) 1-978-922-1832****EU Importers and Representatives are at listed at the end of this document.**

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Classification in accordance with 1272/2008

Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

2.2. Label elements

Label information in accordance with 1272/2008

Hazard pictograms: Not applicable

Signal words: Not applicable

Hazard statements: Not applicable

2.3. Other hazards

Not relevant.

SECTION 3: Composition/information on ingredients

| CAS-No. | EC-No. | Classification according to Regulation (EC) No. 1272/2008 (CLP) | Concentration (wt/v) |
|--|-----------|---|----------------------|
| Tris (hydroxymethyl)aminomethane (Tris) | | | |
| 77-86-1 | 201-064-4 | Not Classified | <1% |
| 3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid (TAPS) | | | |
| 29915-38-6 | 249-954-1 | Not Classified | <1% |
| Ethylenediaminetetraacetic acid (EDTA) | | | |
| 60-00-4 | 200-449-4 | Not Classified | <0.1% |
| Water | | | |
| 7732-18-5 | 231-791-2 | Not Classified | >95% |

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SECTION 4: First Aid measures**4.1 Description of first aid measures****General information**

Standard laboratory protection (coat, glasses and gloves) should be observed.

Following inhalation

Aqueous solution, no special measures are necessary. If inhalation occurs seek medical advice.

Following skin contact

Normal washing of skin is sufficient. If symptoms occur, seek medical advice.

Following eye contact

Rinse eyes thoroughly with water. If symptoms occur, seek medical advice.

Following ingestion

Rinse mouth with water. If symptoms occur, seek medical advice.

Self-protection of the first aider:

Not applicable.

4.2 Most important symptoms and effects, both acute and delayed

No further information is available

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Not applicable.

5.2 Special hazards arising from the substance or mixture

Not applicable.

5.3 Advice for fire-fighters

Not applicable.

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

Not applicable

For emergency responders

Not applicable

6.2 Environmental precautions

Non hazardous. Users should follow procedures and regulations set by their facility with regards to discharge.

6.3 Methods and material for containment and cleaning up

Standard materials may be used (i.e paper towels, mop)

6.4 Reference to other sections

Not applicable.

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

No special measures are required.

Advice on general occupational hygiene

Standard laboratory protection (coat, glasses and gloves) should be observed.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Store at room temperature. No special measures are required.

7.3 Specific end uses

Dilute 1:10 and use as electrophoresis buffer

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

All ingredients lack occupational exposure limit values

8.2 Exposure controls

In terms of minimizing risks, no special attention is needed for this product besides the general obligation that follow EU directive 89/391 and national occupational legislation.

Standard laboratory protection (coat, glasses and gloves) should be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear Aqueous Liquid **Physical state:** Liquid **Colour:** Clear

Odour: None **Odour threshold:** Not Applicable

| | Value | Concentration | Method | Temperature | Pressure | Remark |
|--|----------------|---------------|--------|-------------|----------|--------|
| pH | Not Applicable | | | | | |
| Melting point/freezing point | Not Applicable | | | | | |
| Initial boiling point/boiling range | Not Applicable | | | | | |
| Flash point | Not Applicable | | | | | |
| Evaporation rate | Not Applicable | | | | | |
| Flammability (solid, gas) | Not Applicable | | | | | |
| Upper/lower flammability or explosive limits | Not Applicable | | | | | |
| Upper explosive limits | Not Applicable | | | | | |
| Lower explosive limits | Not Applicable | | | | | |
| Vapour pressure | Not Applicable | | | | | |
| Vapour density | Not Applicable | | | | | |
| Relative density | Not Applicable | | | | | |
| Solubility(ies) | Not Applicable | | | | | |
| Partition coefficient: n-octanol/water | Not Applicable | | | | | |
| Auto-ignition temperature | Not Applicable | | | | | |
| Decomposition temperature | Not Applicable | | | | | |
| Viscosity | Not Applicable | | | | | |
| Viscosity, dynamic | Not Applicable | | | | | |
| Viscosity, cinematic | Not Applicable | | | | | |
| Explosive properties | Not Applicable | | | | | |
| Oxidising properties | Not Applicable | | | | | |

9.2 Other information: No data available

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SECTION 10: Stability and reactivity**10.1 Reactivity**

Not indicated.

10.2 Chemical stability

The product is stable at normal storage and handling conditions

10.3 Possibility of hazardous reactions

Not indicated.

10.4 Conditions to avoid:

Not indicated.

10.5 Incompatible materials:

Not indicated.

10.6 Hazardous decomposition products:

Not indicated.

SECTION 11: Toxicological information**Acute toxicity****EDTA:** LC50 Rat (Oral) = 2000 mg/kg**Tris and TAPS:** No data available**Eye damage/irritation**

To the best of our knowledge this product does not cause eye damage. May cause irritation with susceptible persons.

Practical experience / human evidence

In our experience there are no adverse effects from exposure to this product.

Sensitisation to the respiratory tract

To the best of our knowledge this product does not cause irritation to the respiratory tract.

Skin sensitisation

To the best of our knowledge this product does not cause skin irritation.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

To the best of our knowledge this product does not cause any CMR effects.

Specific target organ toxicity (repeated exposure)

To the best of our knowledge this product does not cause organ toxicity

Aspiration hazard

To the best of our knowledge this product is not an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics:

Not Applicable.

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SECTION 12: Ecological information**12.1 Toxicity:****Aquatic toxicity**

EDTA: LC50 Fish = >500 mg/l

Tris and TAPS: No data available

Sediment toxicity

No data available

Terrestrial toxicity

No data available

12.2 Persistence and degradability

No data available on persistence and degradability, but there is no reason to suppose the product is persistent.

12.3 Bioaccumulative potential

No data available, but there is no reason to suppose the product bioaccumulates.

12.4 Mobility in soil

No data available, but there is no reason to suppose the product is ecologically harmful.

12.5 Results of PBT and vPvB assessment

The product and components does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects:

The product and components have a very low global warming potential and no ozone depleting potential.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Directive 2008/98/EC (Waste Framework Directive)****Before intended use**

Properties of waste which render it hazardous: none

Disposal operations: non hazardous, aqueous, use local regulations when disposing.

Recovery operations: not applicable

Waste code: 16 10 02, Aqueous liquid other than those mentioned in 16 10 01

After intended use

Properties of waste which render it hazardous: none

Disposal operations: non hazardous, aqueous, use local regulations when disposing.

Recovery operations: not applicable

Waste code: 16 10 02, Aqueous liquid other than those mentioned in 16 10 01

Polypropylene container can be recycled**SECTION 14: Transport Information**

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), AND (inland waterways), IMDG (sea), and ICAO (IATA) (air) data sheet.

14.1. UN number

Not classified as dangerous goods

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

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not Applicable

15.2 Chemical Safety Assessment

For this product a chemical safety assessment is not required.

SECTION 16: Other information**16.1 Indication of changes**

There are no earlier versions of this document

16.2 Abbreviations and acronyms

Not applicable.

16.3 Key literature references and sources for dataToxicity data for EDTA were obtained from the Toxicology Data Network provided by the US National Institute of Health (NIH). <https://toxnet.nlm.nih.gov/>**16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]**

This product is not classified.

16.5 Relevant R-, H- and EUH-phrases (number and full text)

Not applicable

16.6 Training advice

Not applicable

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