SAFETY DATA SHEET

Issue Date: May 20, 2020
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Version: Plasm – eq – 1.2

Section 1 – Product and Company Identification

1.1 Product Name: PhyPREP Plasmid Equilibration Buffer

1.2 Recommended Use: R&D use

1.3 Manufacturers Name:
PhyNexus part of Biotage
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San Jose, CA 95136
U.S.A.

1.4 Contact details:

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Section 2 – Hazards Identification

2.1 Classification of the product
This product is not hazardous according to UN GHS, EU Regulation 1272 / 2008

2.2 Label elements
Caution – substance not yet tested completely

2.3 Other hazards

Section 3 – Composition/Information on Ingredients

Name:	**Plasmid Equilibration Buffer**			
Synonyms:	Aqueous buffers for plasmid purification TRIS-HCl buffered solution, pH 7-9			
CAS – No.	EC – No.	Index – No.	Classification	Concentration
NA				

Name:	**TRIS Buffer, pH 8.0**			
Synonyms:	2 – Amino – 2 – hydoxymethylpropane – 1, 3 – diol hydrogen chloride $(HOCH_2)_3CNH_2HCl$			
CAS – No.	EC – No.	Index – No.	Classification	Concentration
1185–53–1	214–684–5			< 1%

Name:	**Water**			
Synonyms:	H_2O			
CAS – No.	EC – No.	Index – No.	Classification	Concentration
7732–18–5				> 99%

Section 4 – First Aid Measures

4.1	**Inhalation:**	If inhaled, move affected person to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration
4.2	**Skin Contact:**	Wash with soap and plenty of water. Seek medical attention if irritation develops or persists
4.3	**Eye Contact:**	Wash thoroughly with plenty of water for at least 15 minutes, separating the eyelids with the fingers. If redness or discomfort persist seek medical attention
4.4	**Ingestion:**	Wash out mouth with copious amounts of water if person is conscious. Never give anything by mouth to an unconscious person. Seek medical attention

Section 5 – Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

5.2 Unusual Fire Hazards and Explosion Hazards

Nature of decomposition products not known

5.3 Special protective equipment for Fire Fighters

Wear self-contained breathing apparatus for firefighting if necessary and appropriate to local circumstances and the surrounding environment

Section 6 – Accidental Release Measures

6.1 Personal precautions

Ventilate the area thoroughly and shut off sources of ignition. Use protective equipment as described in Section 8. Avoid raising dust. Avoid breathing dust, vapours, mist, or gas

6.2 Environmental Precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Contain spillage and then collect with non-combustible absorbent material (e.g. sand, diatomaceous earth, vermiculite) Place in suitable, closed containers for disposal according to local regulations (see Section 13)

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation. Normal measures for preventive fire protection. Avoid ingestion and inhalation

7.2 Conditions for safe storage

Keep in a dry and well – ventilated place. Store at 4°C, out of direct sunlight

Section 8 – Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values

8.1 Personal protective equipment

Respiratory protection

Respiratory protection is not required.
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection

Handle with gloves. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016 / 425 and the standard EN 374 derived from it. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin contact with product. Dispose of gloves after use in accordance with applicable regulations and good laboratory practice. Wash and dry hands

Eye protection

Safety glasses with side – shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin and body protection

Choose body protection in relation to its type, the concentration, and the amount of any hazardous substance, and to the specific workplace

Hygiene measures

Handle in accordance with good laboratory hygiene and safe practice. Wash hands before breaks and at the end of the workday

Section 9 – Physical and Chemical Properties

9.1 Appearance

Form	Liquid
Colour	Clear, colourless

9.2 Safety data

pH	No data available
Melting point	0.0ºC (lit.)
Boiling point	100.0ºC (lit.)
Flash point	No data available
Ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Water solubility	Completely miscible

Section 10 – Stability and Reactivity

10.1 Chemical stability

Stable under recommended storage conditions

10.2 Conditions to avoid

Avoid temperatures above 100^0C

10.3 Materials to avoid

Oxidising agents, bases

10.4 Hazardous decomposition products

In the event of fire: see section 5

Section 11 – Toxicological Information

To the best of our knowledge, the toxicological properties of this material have not been fully investigated

(a) Acute toxicity

No data available

(b) Skin corrosion / irritation

No data available

(c) Serious eye damage / eye irritation

No data available

(d) Respiratory or skin sensitisation

No data available

(e) Germ cell mutagenicity

No data available

(f) Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC

(g) Reproductive toxicity

No data available

(h) Specific target organ toxicity – single exposure

No data available

(i) Specific target organ toxicity – repeated exposure

No data available

(j) Aspiration hazard

No data available

(k) Potential health effects

Inhalation	May cause irritation of the respiratory tract
Ingestion	May be harmful if swallowed. May cause irritation of the digestive tract
Skin	May cause skin irritation
Eyes	May cause eye irritation

Section 12 – Ecological Information

The eco – toxicological properties of this material have not been fully investigated

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio – accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 PBT and vPvB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative and toxic (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects

No data available

Section 13 – Disposal Considerations

13.1 Product

Offer surplus and non – recyclable solutions to a licensed professional waste disposal service to dispose of this material in accordance with local and national regulations

13.2 Contaminated packaging

Dispose of as unused product

Section 14 – Transport Information

Not classified as dangerous goods by ADR / RID, IMDG, or IATA

Section 15 – Regulatory Information

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

This safety data sheet complies with the requirements of Regulation (EU) 2015/830

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors:	Neither banned nor restricted
Restrictions on the marketing and use of certain dangerous substances and preparations:	Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	Neither banned nor restricted
Candidate List of Substances of Very High Concern for Authorization	Not listed
US (TSCA)	Note: substances meeting the definition in 40 CFR 723 of the Toxic Substance Control Act (TSCA) are exempt from the notification requirements of the Act. This material falls within this definition.

Section 16 – Other Information

This substance must only be handled by, or under close supervision of those qualified in the handling and use of potentially hazardous substances. This Safety Data Sheet is offered without charge to the clients of Biotage and it is issued only as a guide for safe handling, use, storage, disposal, and release. Information contained on this sheet is the most current available to Biotage at the time of preparation but does not purport to be all inclusive or a guarantee as to the properties of the material supplied. Biotage makes no warranties or representations as to the accuracy and completeness of the information contained herein. Biotage shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

Key to Abbreviations

CAS: Chemical Abstract Service. **NIOSH**: National Institute for Occupational Safety & Health. **ADR / RID**: Agreement on Dangerous Goods by Road / Regulations Concerning the transport of Dangerous Goods by Rail. **IMDG**: International Maritime Dangerous Goods Code. **IATA**: International Air Transport Association.